



NAVY Ships Material Condition Metrics Website



**February
2002**

**Kisan Pandit
NAVSEA 04M**



Web Site's Purpose

- **Standardize Material Maintenance Metrics**
- **Minimize Maintenance Metrics' Subjectivity**
- **Develop a consistent and systematic approach to the development, collection, and analysis of Navy Shipboard system's data**



Overview

www.maintenance.navy.mil
(IE 5.5 required)

- **Hosted on Secure Servers - UserID / Password Mandatory**
- **Accessible from Distance Support Portal**
- **Metrics calculated using Un-classified data only**
- **Data subject to normal latency**
- **R 230410Z OCT 00 promulgates site as a joint**

**NAVSEA, CLF & CPF site
for ship metrics**

➤ **Will be available in SAP Portal**



Metrics Available

➤ Metrics

- Ship Material Condition Metrics (NAVOP 008/00)
- Ships' 3-M
- CASREP Trends
- DCINC Battle Group Metrics
- “MyMetrics”- Dynamic User defined views
 - Integrated Call Center Metrics
 - CDM Metrics

**Providing web hosting to
suit Customer Requirements**



Significant FY 2002 Initiatives:

- On-Line Help System and increased Taxonomy
- CDMD-OA metrics
- Additional supply metrics - ACWT (Average Customer Wait Time)
- Carrier Team 1 Metrics
- SIPRNET interface to TRMS (TYCOM Readiness Management System) will allow consolidation of classified data with unclassified data (Ships' 3-M) allowing development of new metrics / indices
 - **Mission Performance Capability Indicator (MPC_i)**

$$MPC_i = \frac{(\text{POTF}_{c3/c4} + \text{Underway Steaming Hours})}{(\text{POTF}_{c3/c4} + \text{Underway Steaming Hours}) + \text{MTTR} + \text{ACWT}}$$



Home Page



Welcome to the Navy Ships Material Condition Metrics Website

Use the tabs above to access the various areas on this site.

Tab	What's There
SMCM	The Ship Material Condition Metrics initiative is developing measures of ship material condition and readiness. The website for displaying these metrics is hosted here, along with information on the Fleet Review Board (FRB) Metrics Working Groups.
Metric Data	Trend graphs of data from the CASREP and Ships' 3-M databases. Data is generally displayed by Fleet, TYCOM, and Ship Class.
Links	Links to Navy sites with additional data or information related to ship maintenance. Also, a section for downloading maintenance applications for offline use.
My Metrics	Provides the capability to produce metrics "scorecards", customized by the user. Upon creation of these scorecards, the user can produce trend graphs and/or ranked lists with drill down capability to the database. At this time, metrics have been developed from the Ships' 3-M and Anchor Desk call center databases.
User Account	Register, change your password, send feedback on the site, or update your account information.

The ultimate goal is to provide a single, easy to use, and user accepted source for accessing Navy maintenance and assessment metrics. The information for this site will reside in a single metrics data warehouse which will contain summarized data from a variety of Navy databases, providing metrics in the near term until an enterprise solution can be employed.

The lead for this initiative is NAVSEA 04M. NAVSEA 04M POC is Kisan Pandit , (202)781-1783 Panditkb@navsea.navy.mil.

Navy Ships Material Condition Metrics

SMCM

Metric Data

Links

My Metrics

User Account

Site Search



New Scorecard
Official Scorecards
My Scorecards
Others Scorecards
My Groups
Others Groups

Constellation Battle Group for 2001

	1 MONTH (2001 06)	AVG 6 MONTHS (2000 12 - 2001 05)	AVG 12 MONTHS (2000 06 - 2001 05)	12 MONTH MIN	12 MONTH MAX
Critical Maintenance Actions	203	1,581	1,616	1,194 2000 08	2,496 2000 11
Critical Maintenance Actions per Ship	18.45	143.70	146.96	108.55 2000 08	226.91 2000 11
IMA Manhours per Ship	0.00	436.12	809.31	119.64 2001 03	1,531.36 2000 10
Maintenance Actions per Ship	68.55	329.91	322.17	232.00 2000 08	501.82 2001 01
O & I Maintenance Cost per Ship	\$47,627.32	\$525,344.53	\$625,867.03	\$347,412.50 2001 05	\$1,090,670.14 2000 10
Off-ship Jobs per Ship	18.09	79.65	73.36	40.45 2000 0	104.91 2000 11
Part Issues per Ship	12.73	271.44	310.86	2001 05	2000 10
Parts Cost per Ship	\$21,060.27	\$303,168.23	\$330,125.52	\$166,593.45 2000 07	\$575,693.55 2000 10
Ship Manhours per Maintenance Action	10.34	16.51	22.03	11.69 2001 05	30.58 2000 10
Ships' Force Manhours per Ship	708.45	5,442.06	6,990.80	3,484.27 2001 05	12,038.00 2000 10
Total IMA Man-hours	0	4,797	8,902	1,316 2001 03	16,845 2000 10
Total Part Issues	140	2,986	3,420	1,646 2001 05	5,607 2000 10
Total Parts Cost	\$231,663	\$3,334,850	\$3,631,381	\$1,832,528 2000 07	\$6,332,629 2000 10
Total Ships' Force Man-hours	7,793	59,863	76,899	38,327 2001 05	132,418 2000 10

Click
here

Copy

Edit

Delete

☒ Default
Scorecard☐ Show
Scorecard
Criteria

Create List

Create Graph



Internet

Supply

Maintenance

Manpower

BG Commander

DCINC METRICS
Provided by NAVSEA

Related Scorecards:

Roosevelt 2001

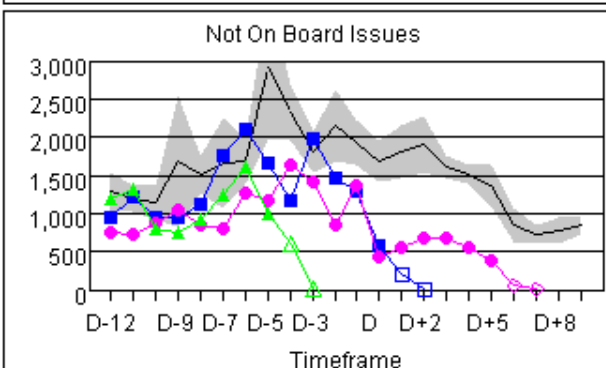
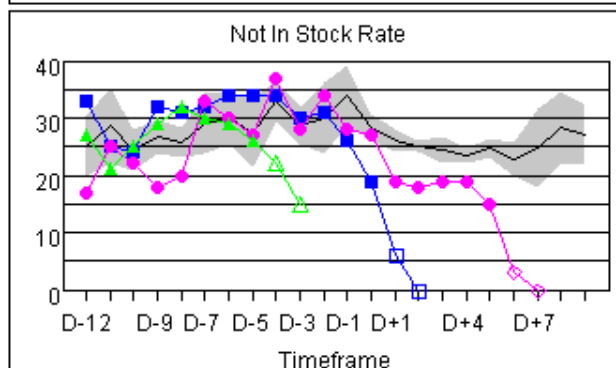
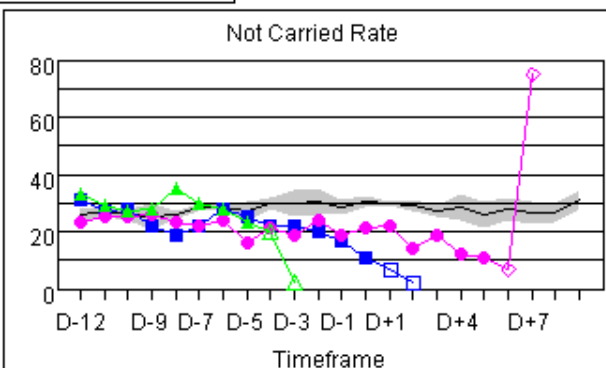
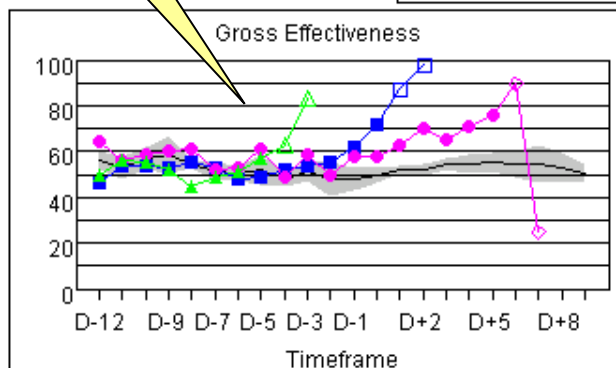
Enterprise 2001

Truman 2000

CINCLANTFLT Battle Groups - Supply

Click here to
enlarge chart

Current - Enterprise Battle Group 2001
Last - Truman Battle Group 2000
Next - Roosevelt Battle Group 2001
Historical Battle Groups
Open Points Indicate Incomplete Data





Back - Up

Navy Ships Material Condition Metrics

SMCM

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SMCM Website
SMCM WG

Ship Material Condition Metrics Initiative

The CNO, on the recommendation of the Fleet Review Board (FRB), chartered an executive steering committee to develop material condition metrics which provide resource sponsors and maintenance managers the ability to utilize material condition information to support planning and execution of maintenance programs. Ultimately, the objective of this effort is to provide a means of quantifying and predicting the impact of various levels of maintenance funding on future ship material condition and readiness. The ESC formed three working groups to accomplish its objectives.

The website link provides selected available measures of ship material condition and readiness gathered in one convenient location for the use of maintenance resource decision makers. Based on user feedback, the committee has identified the best available common set of measures. Using this set of measures, application of predictive models will be explored.

Information on the three metrics working groups, including meeting minutes and presentations, is available using the FRB Working Groups link.

N A V A L S E A S Y S T E M S C O M M A N D



Internet

https://nslcweb2.navsea.navy.mil/Metrics/Home.html - Microsoft Internet Explorer provided by Naval Sea Logistics Center

File Edit View Favorites Tools Help

Address https://nslcweb2.navsea.navy.mil/Metrics/Home.html Go

Navy Ships Material Condition Metrics

SMCM Metric Data Links My Metrics User Account Site Search Go

Navy
CINCLANTFLT
CINCPACFLT

Navy Metrics Trends

Except where noted, these Metrics reflect reporting from all active Navy ships. Yard craft and small boats are not included.

Click on the links below to view the metrics.

[Ship's 3-M Metrics](#) use maintenance data collected in the Ship's 3-M Database. Data is displayed quarterly for the past 22 quarters.

[Quarterly CASREP Trends](#) provides graphed and tabular data on trends in material condition for active surface ships for the past 22 calendar quarters.

[Annual CASREP Trends](#) provides graphed trends of CASREPs for various Fiscal Years since 1985.

[Ships' 3-M Surface Fleet Comparison](#) charts Atlantic and Pacific Fleet comparison purposes.

[Active Fleet Trends](#) displays the expected population trends for active fleet ships used in these metrics.

[ASN Charts](#) displays the current fleet readiness charts provided by NAVSEA to the Assistant Secretary of the Navy.

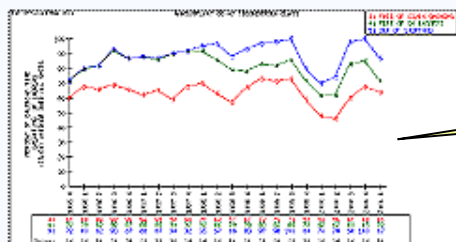
Click here to go to the comparison charts

NAVAL SEA SYSTEMS COMMAND

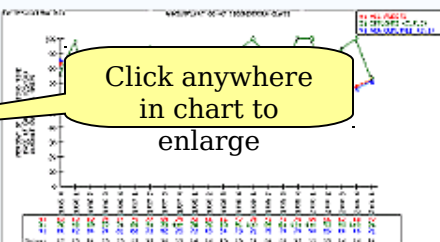
Last Updated: 11/30/2000 9:00 AM
URL: https://nslcweb2.navsea.navy.mil/Menu/fileattachments/1371-Navyhome.htm?app=Maintenance
Material Condition Metrics Website, 2000

https://nslcweb2.navsea.navy.mil/Menu/fileattachments/1371-Surface_fleet_compare.htm Internet

NAVSURFLANT CG-47 TICONDEROGA CLASS

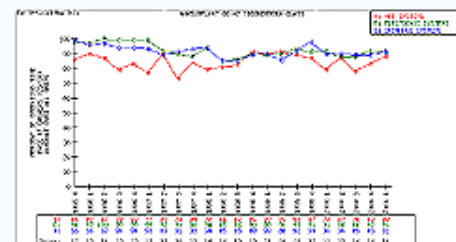


Calendar Time

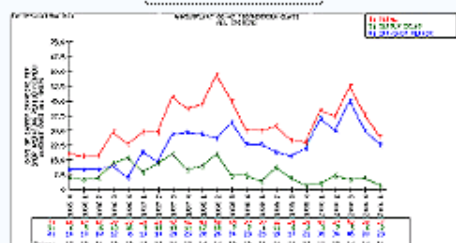


Click anywhere
in chart to
enlarge

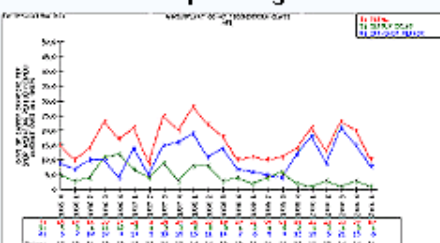
Fleet Operating Time



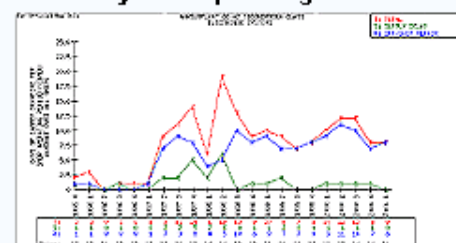
System Operating Time



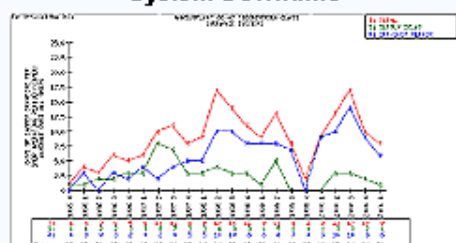
System Downtime



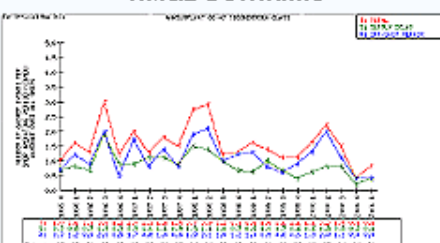
HM&E Downtime



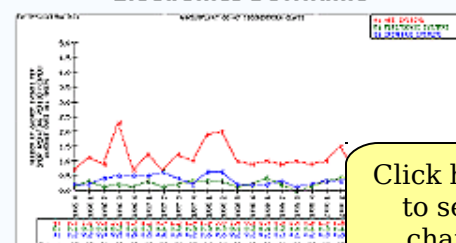
Electronics Downtime



Ordnance Downtime

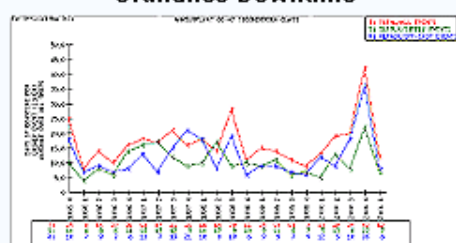


Events



System Events

Click here to see
chart
breakdown



Downtime Complete

CHARTS

- C2 EIC Breakdown
- C2 C3 C4 EIC Breakdown
- C3 C4 EIC Breakdown
- C3 C4 EIC Summary
- Ship Information

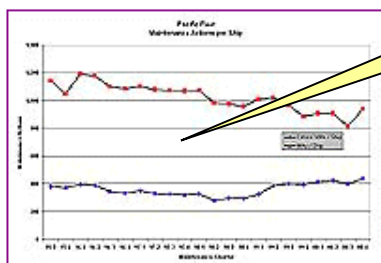


Pacific Fleet 3-M Data Trends

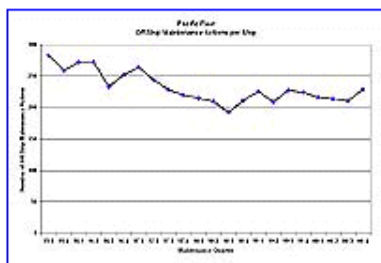
Data Normalized Per Ship

To view the same data normalized Per Operating Day, [Click Here](#).

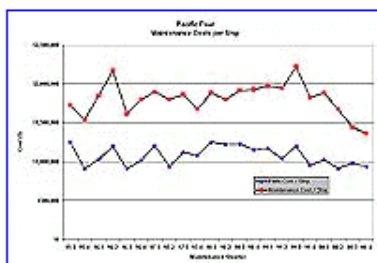
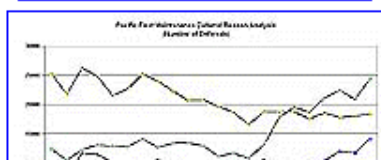
Click a thumbnail to enlarge the graph. Click the caption for a brief explanation.



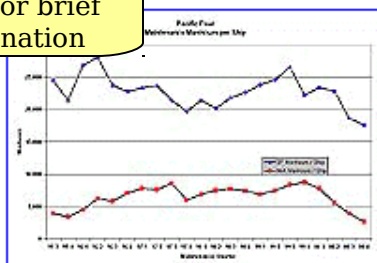
Maintenance Actions per Ship



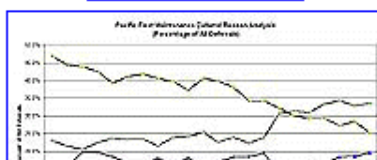
Off-Ship Maintenance per Ship



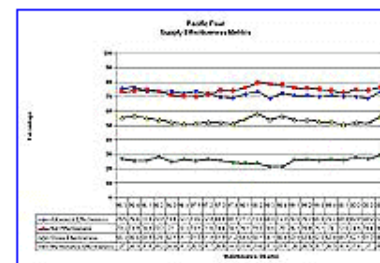
Costs per Ship



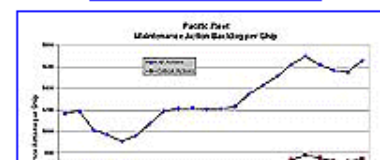
Manhours per Ship



Part Issues per Ship



Supply Effectiveness



[Back to Navy Maintenance, Logistics, and Readiness Metrics](#)

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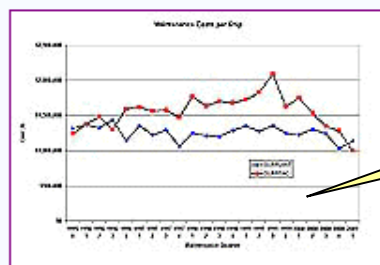
CINCPACFLT



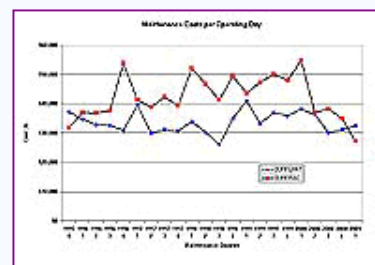
Surface Fleet Trend Comparison

Compare Ships' 3-M Data Trends between Atlantic and Pacific Fleet Surface Ships.

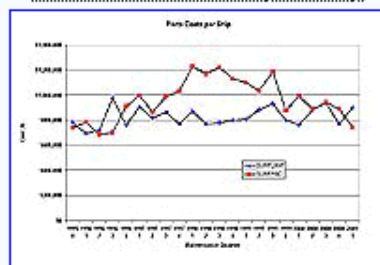
[Click a thumbnail to enlarge the graph.](#) [Click the caption for a brief explanation.](#)



Click on
chart to
enlarge

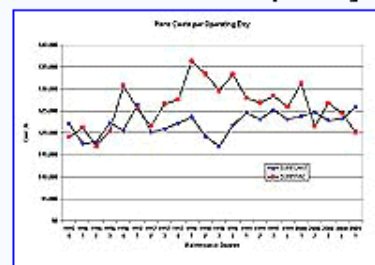


Maintenance Costs per Ship



Click here
for brief
explanatio
n

Maintenance Costs per Day



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Applications

Related Links

Resources

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Maintenance Application Links

- [Distance Support Portal](#)
- [Integrated Assessment and Trends](#)
- [SURFMER](#)
- [OMMS-NG Tutorial Slides](#)
- [Web ICMP](#) *(Temporarily requires re-login to old server)*
- [Tank and Void Data](#)
- [Underwater Hull Data](#)
- [Piping Ultrasonic Data](#)
- [CINCLANTFLT Battle Group Metrics Page](#)

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Maintenance Resource Links

- [NAVSEA 04M](#)
- [Integrated Class Maintenance Plan \(ICMP\)](#)
- [Open Architecture Retrieval System \(OARS\)](#)
- [OARS \(Web Version\)](#)
- [SHAPEC Toolkit](#)
- [SEMAT I & II \(SNAPSHOT\)](#)
- [Power Systems Website](#)
- [Ships' 3-M Manual Online](#)
- [Ships' 3-M Reference](#)
- [Ships' 3-M](#)
- [VAMOSC](#)
- [SURFPAC RMAIS](#)

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Navy and Government Links



SearchMil.com

SearchMil.com specializes in military targeted searches, combining exhaustive coverage of the .mil domain with powerful search engine technology that ranks results in order of popularity.



The technical gateway to the United States Department of the Navy online resources.



[Navy/Marine Corps
 White Pages Directory
 \(NMC-WP\)](#)

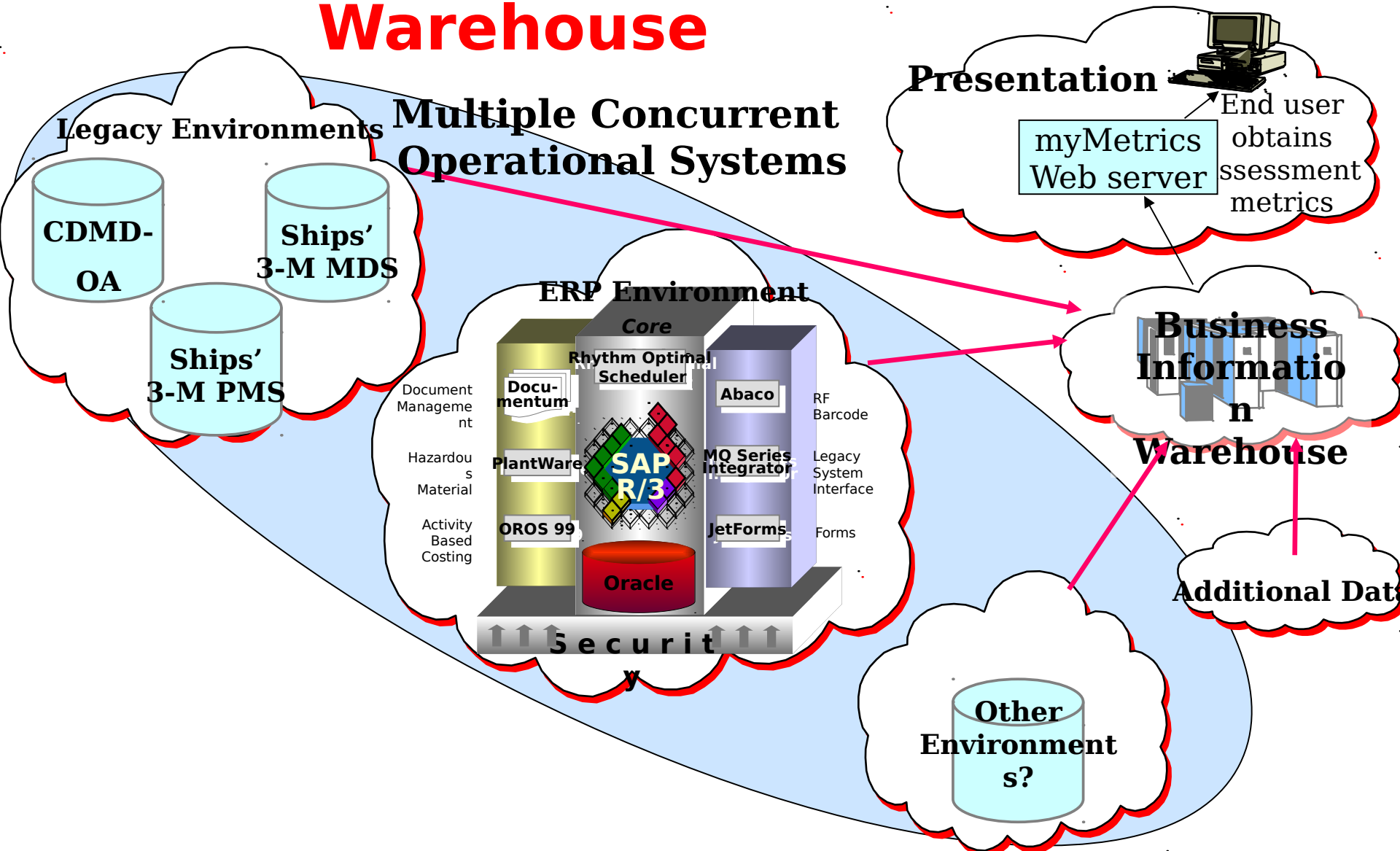


Joint Fleet Maintenance





Metrics Warehouse Transition to the SAP Business Information Warehouse





NAVOP 008/00

DTG 191605Z JUL 00

CNO:

- Endorses previous Fleet metrics initiatives
- Directs the establishment of common material assessment procedures and tools that ensure:
 - common standards are applied by whoever is doing an assessment;
 - the information gathered from material assessments better reflects Fleet readiness
- Identifies 4 goals to meet





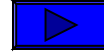
CNO Goals

- (1) Develop and implement standardized, configuration-linked assessment criteria across the Fleet using common material condition metrics and assessment procedures.
- (2) Incorporate methodology to support continual assessment process improvement and elimination of duplicative events.
- (3) Consolidate all Fleet material condition data into a single data warehouse and provide easy and timely access to all users.
- (4) Develop procedures to determine key areas to reduce sailor workload and improve Fleet material readiness.



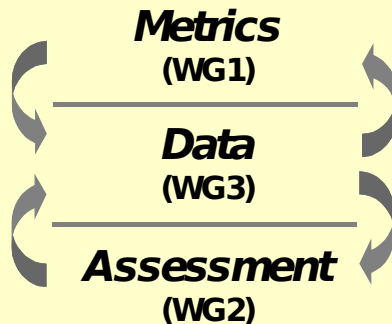
Metrics Working Groups

- WG #1: Standardization & Metrics
- WG #2: Assessment Process
- WG #3: Data Warehousing, Access, & Security



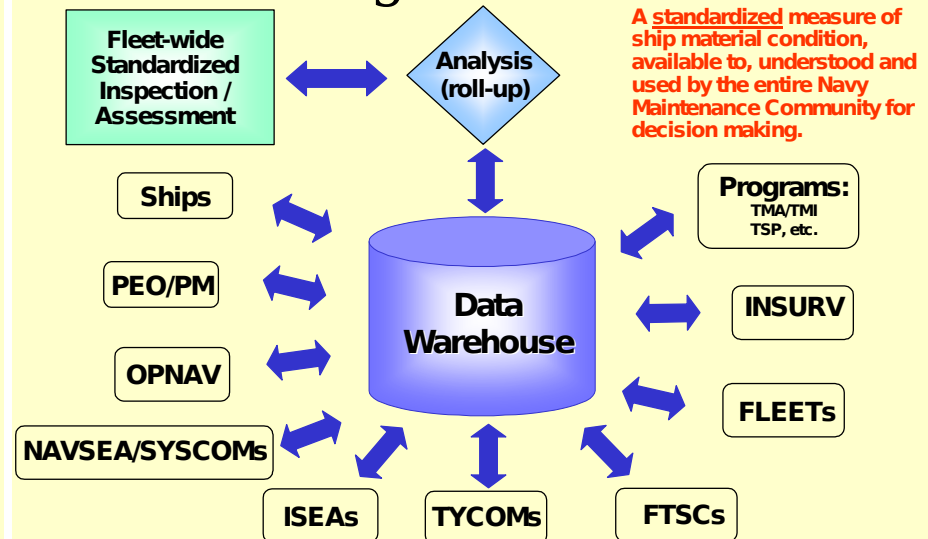
Working Group Focus

- What do we want to know?
- How do we store, retrieve, analyze data?
- What, how, who looks at material condition?



- RADM Carnevale 12 OCT 00

Target End State





•R 230410Z OCT 00 ZYB ZDK PSN
935456M32

FM COMNAVSEASYS COM WASHINGTON DC//04//
TO RUCBCLF/CINCLANTFLT NORFOLK VA//N43//
RHHMHAA/CINCPACFLT PEARL HARBOR HI//N43//
RHHMHBA/CINCPACFLT PEARL HARBOR HI//N43//
RHMFIUU/CNO WASHINGTON
DC//N42/N43/N81/N85/N86/N87/N88//

1. THIS MESSAGE IS TO ANNOUNCE ESTABLISHMENT AND AVAILABILITY OF THE NAVY SHIP MATERIAL CONDITION METRICS WEBSITE, A JOINT ENDEAVOR OF NAVSEA 04, CINCLANTFLT N43, AND CINCPACFLT N43.
2. THE SUBJECT WEBSITE IS ACCESSABLE VIA URL WWW.MAINTENANCE.NAVY.MIL TO ALL MILITARY, CIVILIAN, AND CONTRACTOR SUPPORT PERSONAL. USERID AND PASSWORD IS ACCOMPLISHED THROUGH THE SUBJECT SITE'S ONLINE FORM.



Warehouse End State

